

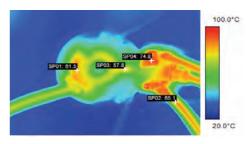


# SWITCH SOLUTIONS FOR INDUSTRIAL APPLICATIONS

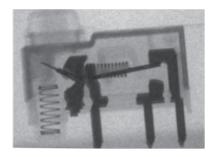




## **ENGINEERING TECHNOLOGY INTO SOLUTIONS**



Molding rheology simulation

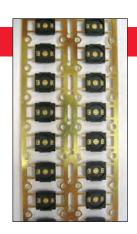


Dynamic x-ray analysis

Solutions to the challenges facing the Industrial market space require collaboration between customer and supplier. To provide local engineer-to-engineer communication and support, C&K has design centers located in Newton, MA (USA), Dole France, and Huizhou China. In order to develop robust product designs and expedite time to market, C&K leverages design and analysis tools such as solid modeling CAD systems, FEA and dynamic motion software, mold flow analysis, 3D printing & SLA, X-ray, SEM/FTIR, thermal imaging, force testing, and sound analysis chambers.

## MANUFACTURING TECHNOLOGY INTO SOLUTIONS

C&K has been providing innovative solutions to our customers for over 50 years, using our extensive industry and applications knowledge and the latest development and manufacturing techniques to solve the most difficult design challenges and provide customer and application specific solutions. Our manufacturing locations are ISO 9001 and TS16949 certified. To ensure quality, reliability, and long cycle life, as well as meet design to cost objectives, C&K maintains internal control of key manufacturing processes such as stamping, precision molding, plating, and high speed automatic assembly.



Precision stamping and over molding tools designed and built by C&K



High speed and high precision milling machine for tools and machine building



High speed switch assembly machine designed and built by C&K



Customized in-house testing capability

# **SWITCH SOLUTIONS FOR INDUSTRIAL APPLICATIONS — PRODUCTS**

		THE REAL PROPERTY.	<b>A</b>						
Minut		DIP	Rotary	Slide	Tact	Snap	Rocker	Keylock	Pushbuttons
TO THE	Low Voltage Motor Drives	•	•	•	•				
11	High Voltage Cabinets					•			•
	PLC/PAC	•	•		•				
	CNC Machine Controls	•			•			•	•
	Motion Controllers		•	•			•	•	
	Servo Systems	•			•				
	Network & Communication	•	•						
	Power Supplies			•			•		
	Protection Relays	•	•	•	•				•
	Manual Motor Starters		•	•	•				•
	Soft Starters		•						
	Circuit Breakers	•	•		•	•			•
	Timing Relays		•	•	•				
	Safety Relays		•		•				•
	Signal Conditioners	•	•		•				
	Robotics Controllers	•			•		•	•	•
	Sensors & Switches		•			•			



# **DESIGNING TECHNOLOGY INTO SOLU**

Performance, reliability, and durability are key requirements for keeping industrial equipment up and running. With production lines ru the high cost of machine down time.

C&K products, with their reputation for high quality and long cycle life, are ideally suited for demanding applications in harsh environr C&K provides application specific, custom solutions to our customer's most challenging requirements.

#### **Automation and Control**

- PLC / PAC
- Inverters & drives
- Motion controllers
- Motor starters
- Protection relays
- Timing relays
- Programmable relays
- Circuit breakers
- Power supplies
- Signal conditioners
- Pneumatics / valve controls
- Sensors and switches







## **Processing Equipment** & General Machinery

- CNC machines
- Robotics
- Automated assembly equipment
- Process automation
- · Semiconductor equipment
- Welding & cutting machines
- · General machinery











#### **C&K Switch Solutions**

- Inverter drive configuration
- Input voltage selection
- Encoder and potentiometer controls
- Network node address selection
- Operating mode selection

- Door inte
- Trip class
- Auto/mar
- Trip curre Time dela
- Input/out
- On/Off sv
- Test & res
- Bus termi
- Trip statu
- Custom s

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APPLICATION	FUNCTION	SWITCHES			
Inverters	Inverter config, motor frequency	DIP			
Inverters	Input/Output signal selection (V/A)	Slide			
Inverters	Bus termination, network address	DIP			
Inverters	Potentiometer, encoder settings, MMI	Slide, DIP, Tact			
Inverters	Servo/Vector control selection	DIP, Slide			
PLC	Mode selection (run/stop/program)	Rotary, Toggle			
PLC	Network address setting	DIP			
PLC	I/O Module lock, unlock	Toggle			
CNC Controls	PLC mode select, NC commissioning	Rotary DIP			
CNC Controls	Network address setting	DIP			
CNC Controls	Program protect, start/stop	Keylock, Pushbutton			
Overload Relay	Motor current, trip class settings	Rotary DIP			
Overload Relay	Stop/Reset switch, Test button	Tact, Pushbutton			
Overload Relay	Auto/manual reset select	Slide			
Safety Relays	Delay settings	Slide, Rotary DIP			
Safety Relays	Test button	Tact, Pushbutton			
Timing Relays	Delay settings	Rotary DIP			
Motor Starter	On/Off switch, motor current settings	Rocker, Rotary DIP			
Motor Starter	Test button	Tact, Pushbutton			
Circuit Breaker	Configuration switches	DIP, Rotary DIP			
Circuit Breaker	Test button, trip status indicator	Tact, Pushbutton, Snap			
Power Supply	On/Off switch, input voltage selection	Rocker, Slide			
Power Supply / UPS	Output current, time delay selection	Slide, Rotary DIP			
Control Cabinet	Door interlock switch	Snap			
Hoist/Winch	Controller	Pushbutton, Toggle, Keylock			
Cycle Counters	Program, reset buttons	Tact, Pushbutton			
Pressure Transmitter	Mode, set switch	Tact, Pushbutton			
Photoelectric Sensor	Time delay, light on/dark on selection	Rotary DIP, Slide, DIP			
Signal Conditioner	Calibration range, zero settings	DIP, Tact			
Welding Machines	Welder settings	Toggle, Rotary, Rocker			
Plasma Cutters	On/Off switch, output power adjust	Rocker, Rotary			
Laser Cutting / Marking	On/Off, laser enable, cycle start	Rocker, Keylock, Pushbutton			
Robot Controls	On/off, run/teach mode, jog	Rocker, Keylock, Pushbutton			



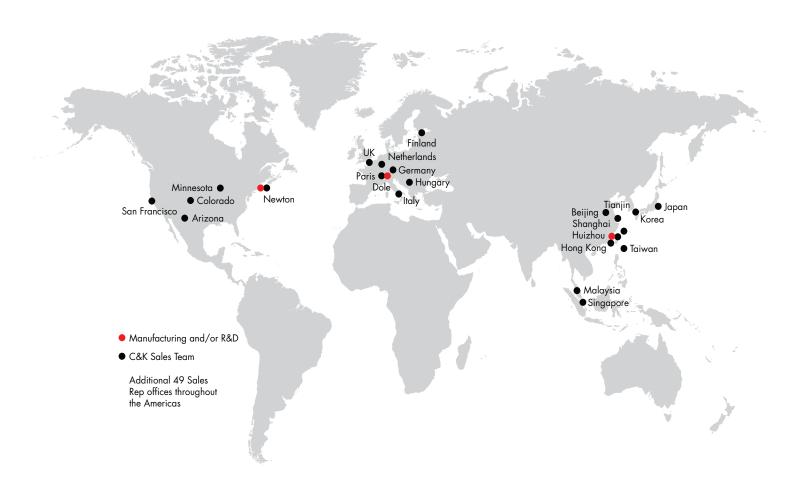








# **C&K SALES SUPPORT**



Please visit www.ck-components.com to view C&K's full product offering and list of partners and distributors. The "Ask a specialist" function on the website allows direct contact to each C&K product manager to leverage your C&K product knowledge.

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